

### REMARKS

As suggested by the Examiner, the title has been changed. The old title has been lined through and the new title is underlined, though the old title was underlined as well. Entry of this amendment is respectfully requested.

The drawings have been objected to "because the new drawing filed 8-26-2005 and labeled "prior art" is not referred to in the specification and it is not clear that the figure corresponds to the structure set forth by the remainder of the disclosure." Applicants' attorney reviewed the file history kept by the assignee of record and consulted with the docket clerk. No drawings were filed in this application other than at the time of filing, namely March 24, 2004, and that the Patent Office may have associated the figure by error. Withdrawal of the objection is earnestly solicited.

Claims 1-9 have been rejected under 35 U.S.C § 102(b) as being anticipated by Higashi et al. (U.S. Patent No. 4,739,657) or Buchhold et al U.S. Patent No.6,744,248) or Bohlinger (WO 99/61931). The Examiner has stated that the references disclose "plural permalloy resistors (which read on the claimed runners) on a silicon substrate, with some of the resistors running perpendicular to other of the runners and such an arrangement will provide a sensor anisotropy for at least some of the runners of about 90 degrees." Reconsideration of the rejection and allowance of the claims is respectfully urged for the following reasons.

Higashi et al. does not discuss the magnetic properties of permalloy. This reference discloses a microbridge flow sensor in which a number of squares of permalloy and a number of squares of platinum connected in series. There is no disclosure of measurement of a magnetic field and a permalloy resistor having an anisotropy of about 90 degrees and it is impossible for the Higashi et al device to function as a magnetic field sensor and measure the magnetoresistance. The instant claims recite that "the mechanical length of each of said individual runners is perpendicular to the magnetic wafer level anisotropy" and that is not the case in the reference. Only some resistors are perpendicular and only some are made from permalloy, and thus the limitation set forth here and claimed is not shown in the reference.

Similarly, Buchhold et al. also has resistors other than perpendicular to the wafer level anisotropy. In Fig. 1, the magnetoresistive resistor is a permalloy strip arranged in a meandering configuration. See column 3, lines 55 ff. Thus, again, the limitation discussed above and claimed herein is not shown in the Buchhold et al. reference.

Bohlinger et al. is the only reference to discuss anisotropy, but it does not disclose the elements of the present invention. Specifically, Bohlinger et al. uses two different bridges on the same device, where the entire bridge is magnetized with both 0 degrees and 90 degrees, rather than having the limitation set forth in each of the independent claims.

8. (original)

The method of claim 7, wherein said permalloy is deposited as a thin film.

9. (original)

The method of claim 8, wherein said substrate is a silicon wafer.

Thus, none of the references have the limitation that "the mechanical length of each of said individual runners is perpendicular to the magnetic wafer level anisotropy" and cannot be said to anticipate the claimed invention. Reconsideration of the rejection and allowance of the claims is earnestly solicited.

If the Examiner considers this application ready for conclusion, other than by allowance, he is respectfully requested to call applicants' attorney at the number listed below.

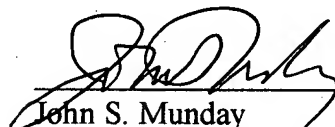
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9/8/06

Respectfully submitted,  
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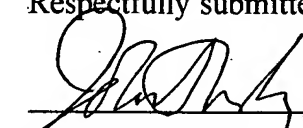
CERTIFICATE OF MAILING

I hereby certify that the attached correspondence is being deposited with the United States Postal Service and First Class Mail in an envelope addressed to: Mail Stop Non fee amendment, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on the date appearing below.

DATE: \_\_\_\_\_

September 8, 2006

Respectfully submitted,

  
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John S. Munday